

ABSTRACT OF THE DISCLOSURE

The present invention provides an SR motor in which magnetic pole utilization is improved by increasing an overlapping area between projecting poles. A stator 10 is provided at its outer peripheral surface with slots SR1 through SR12. Between two adjacent slots, each of poles S1 through S12 are defined. Each of coils Aa, Ab, ba, Bb, Ca, and Cb is wound along any two slots between which two other slots are placed such that the coils Aa, Ba, and Ca are in parallel to the coils Ab, Bb, and Cb, respectively. Along an inner peripheral surface of a rotor 20, a plurality of circumferentially spaced magnetically insulated pieces J1 through J8 formed of magnetic material are mounted. When each of the pieces J1 through J8 is in opposition to the two adjacent poles of the stator 10, each of the coils generates a closed-loop magnetic flux that passes through the magnetic material piece and the poles corresponding thereto, thereby producing a torque.